PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
ÖZLEM TÜRECI	02/22/2017	
KORDEN WALTER	12/19/2016	
MARIA KREUZBERG	12/19/2016	
STEFAN JACOBS	12/25/2016	

RECEIVING PARTY DATA

Name:	GANYMED PHARMACEUTICALS AG
Street Address:	AN DER GOLDGRUBE 12
City:	MAINZ
State/Country:	GERMANY
Postal Code:	55131

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	16795468
Application Number:	18339837

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 3122698000

Email:koleary@nge.com, ipusmail@nge.comCorrespondent Name:NEAL, GERBER & EISENBERG LLPAddress Line 1:TWO NORTH LASALLE STREET

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Address Line 4: CHICAGO, ILLINOIS 60602

ATTORNEY DOCKET NUMBER:	026156-8027 / 026156-8047
NAME OF SUBMITTER:	KEVIN A. O'CONNOR
SIGNATURE:	/Kevin A. O'Connor/
DATE SIGNED:	08/09/2023

Total Attachments: 6

PATENT REEL: 064542 FRAME: 0325 source=4 Assignment (Tureci, Walter, Kreuzberg, Jacobs to Ganymed Pharmaceuticals AG)#page3.tif source=4 Assignment (Tureci, Walter, Kreuzberg, Jacobs to Ganymed Pharmaceuticals AG)#page4.tif source=4 Assignment (Tureci, Walter, Kreuzberg, Jacobs to Ganymed Pharmaceuticals AG)#page5.tif source=4 Assignment (Tureci, Walter, Kreuzberg, Jacobs to Ganymed Pharmaceuticals AG)#page6.tif source=4 Assignment (Tureci, Walter, Kreuzberg, Jacobs to Ganymed Pharmaceuticals AG)#page7.tif source=4 Assignment (Tureci, Walter, Kreuzberg, Jacobs to Ganymed Pharmaceuticals AG)#page8.tif

PATENT REEL: 064542 FRAME: 0326

PATENT ASSIGNMENT

Attorney Case Number: 60330US01 U.S. Serial Number: 14/904,011

WHEREAS, we, Özlem Türeci, Korden Walter, Maria Kreuzberg and Stefan Jacobs (collectively referred to hereinafter as the "Assignors") have made new and useful inventions and improvements disclosed in a United States patent application entitled "DIAGNOSIS AND THERAPY OF CANCER INVOLVING CANCER STEM CELLS" and identified as Case No. 60330US01, in the offices of McANDREWS, HELD & MALLOY, LTD., filed on January 8, 2016, in the United States Patent and Trademark Office as Serial No. 14/904,011 which is a National Stage Entry of PCT/EP2014/066330 filed on July 30, 2014 (collectively referred to hereinafter as the "Applications").

WHEREAS, Ganymed Pharmaceuticals AG, An der Goldgrube 12, Mainz Germany, 55131 (referred to hereinafter as the "Assignee") is desirous of acquiring the title, rights, and privileges hereinafter recited.

NOW, THEREFORE, in exchange for good and valuable consideration in hand paid, the receipt, adequacy, and sufficiency of which are hereby acknowledged, the Assignors hereby assign to the Assignee, its successors and assigns, the entire right, title and interest in and to said Applications and the inventions and improvements disclosed therein, and in any and all other (provisional or non-provisional) applications, both United States and foreign, based thereon or that claim priority thereto, including any continuation, continuation-in-part, or divisional application that the Assignors may file, either solely or jointly with others, and in any and all Letters Patent of the United States and foreign countries that may be obtained on any of said Applications, and in any reexamination, renewal, substitution, reissue or extension of such applications or patents, and every priority right that is or may be predicated upon or arise from said inventions, improvements, applications, and Letters Patent.

The Assignors hereby authorize the Assignee, its successors and assigns, to file patent applications in any or all countries for any or all of said inventions and improvements in our name or in the name of the Assignee, its successors and assigns, or otherwise as said Assignee, its successors and assigns, may deem advisable, under the International Convention or otherwise. The Assignors hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee, its successors and assigns.

The Assignors warrant to be the owner of the entire right, title and interest in said invention or improvements and to have the right to make this Assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

The Assignors hereby agree, upon the request and at the expense of said Assignee, its successors and assigns, to execute any and all continuation, continuation-in-part, divisional, extension, renewal, and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue, reexamination, or extension of any Letters Patent that may be granted upon said Applications, that said Assignee, its successors or assigns may deem necessary or expedient; and to cooperate to the best of the ability of the Assignors with said Assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all acts necessary to obtain said Letters Patent in the United States and foreign countries, and vest all

PATENT REEL: 064542 FRAME: 0327 rights therein hereby conveyed in the Assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said Assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the Assignors if this Assignment had not been made.

This Assignment shall be binding upon and shall inure to the benefit of the Assignee and Assignors and their respective successors and assigns.

This Assignment may be executed in one or more counterparts, all of which shall be considered one and the same Assignment. The signatures from each counterpart may be combined with a copy of the Assignment to constitute the entire Assignment.

[SIGNATURE PAGE FOLLOWS]

EXECUTED this 2 day of 20.00	
Öziem Türeci	
WITNESSED by 13.15 this 22 day of 166	<u>.</u>
WITNESSED by, this day of,	

EXECUTED this	_day of	<u>2016</u> .	arrantin)	
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		Korden Walter		
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WITNESSED by	146 <u>2 / /</u>	this <u>/</u> /7	_day of <u>@c</u>	_, <u>&&/6</u>
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EXECUTED this <u>AS th</u> day of <u>Decemble</u> . <u>S</u>	<u> 2016.</u>		
	M. NW	LJ	
	Maria Kreuzberg	/	
		/	
WITNESSED by	this _ P _ day of _		. 20/6
WITNESSED by	this <u>/ ⁽⁻⁾</u> day of	Dec	D16
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EXECUTED this 25 day of December 2016

WITNESSED by Dawnfart this 25 day of Real 2016.

WITNESSED by Do Bauman this 25 day of Real 2016.

Hona Baumgart